



Enviro400EV

THE CROWD-SHIFTER

The Alexander Dennis Enviro400EV is the perfect battery-electric double deck bus for Transport for London routes. Part of the next generation of Alexander Dennis zero-emission buses, this reliable and efficient double decker meets TfL requirements including the capital's pioneering Bus Safety Standard.

Its class-leading energy throughput means that subject to route profile, the original batteries can complete two consecutive seven-year contracts without replacement.



Features and benefits

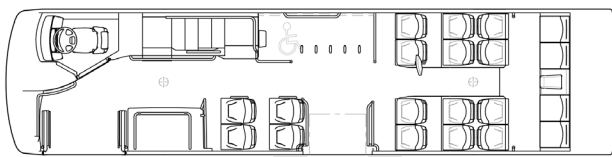
- Designed and built by Alexander Dennis
- AD24 whole-vehicle aftermarket support
- 5-year standard vehicle warranty
- Up to 1.6GWh warrantable energy throughput
- 0.67kWh/km energy efficiency in UK Bus Cycle
- Up to 260 miles range on a single charge
- Up to 87 passengers total capacity
- TfL Bus Safety Standard



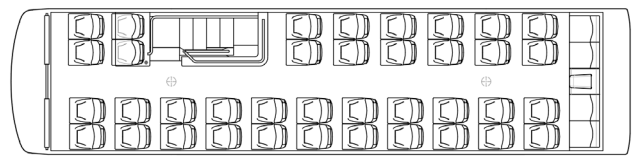
Technical specifications

Construction	Welded steel chassis and aluminium body
Dimensions	10.5m length / 5.4m wheelbase / 2.55m width / 4.3m height
Manoeuvrability	10.1m turning radius
Tyres	275/70 R22.5
Passenger capacity	Up to 87 passengers with 62 seats (42 in upper deck, 20 in lower deck)
Accessibility	1 two-metre wheelchair space accessed via electric ramp at centre door
Electric motor	Voith Electrical Drive System HD, 410kW peak and 310kW continuous power
Battery system	Impact NMC lithium-ion battery, 354kWh or 472kWh
Charging system	CCS2 DC plug charging at up to 150kW nominal power with sockets mounted on either or both sides of the vehicle, optional roof-mounted rails for pantograph charging at up to 177kW (354kWh battery) or 200kW (472kWh battery)
Operational range	Up to 195 miles (354kWh battery) or 260 miles (472kWh battery) range on a single charge at beginning of life
Climate system	Forced air circulation with zero-emission heat pump for heating and cooling

Sample seating layout



Lower deck with 20 fixed seats + 1 wheelchair space



Upper deck with 42 seats